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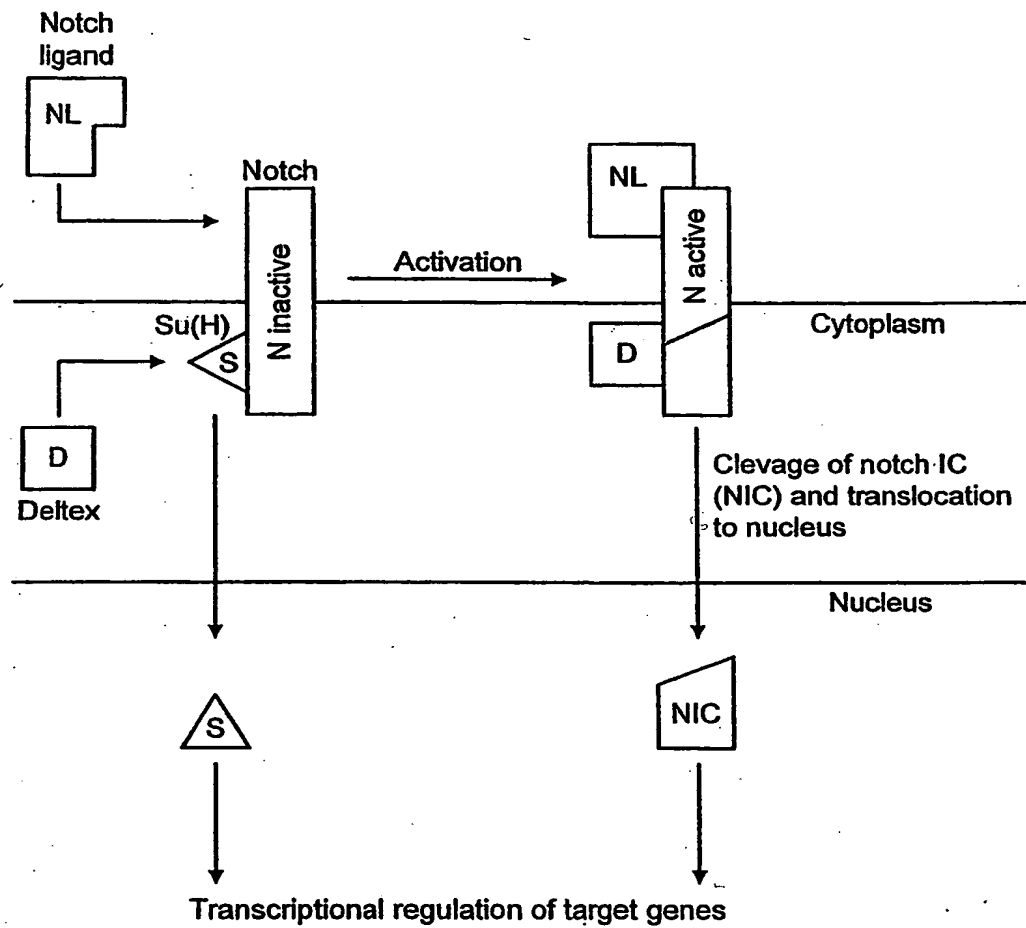


FIG. 1

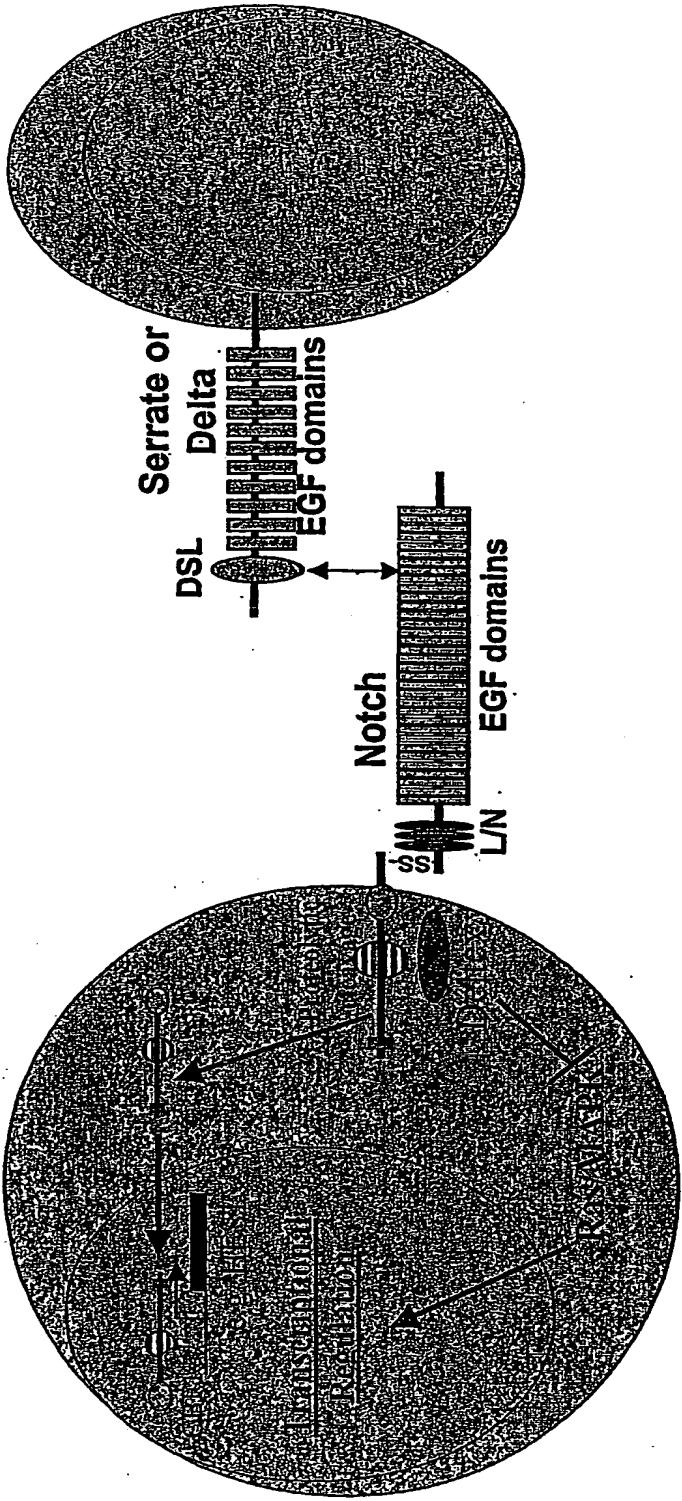


Figure 2

FIGURE 3

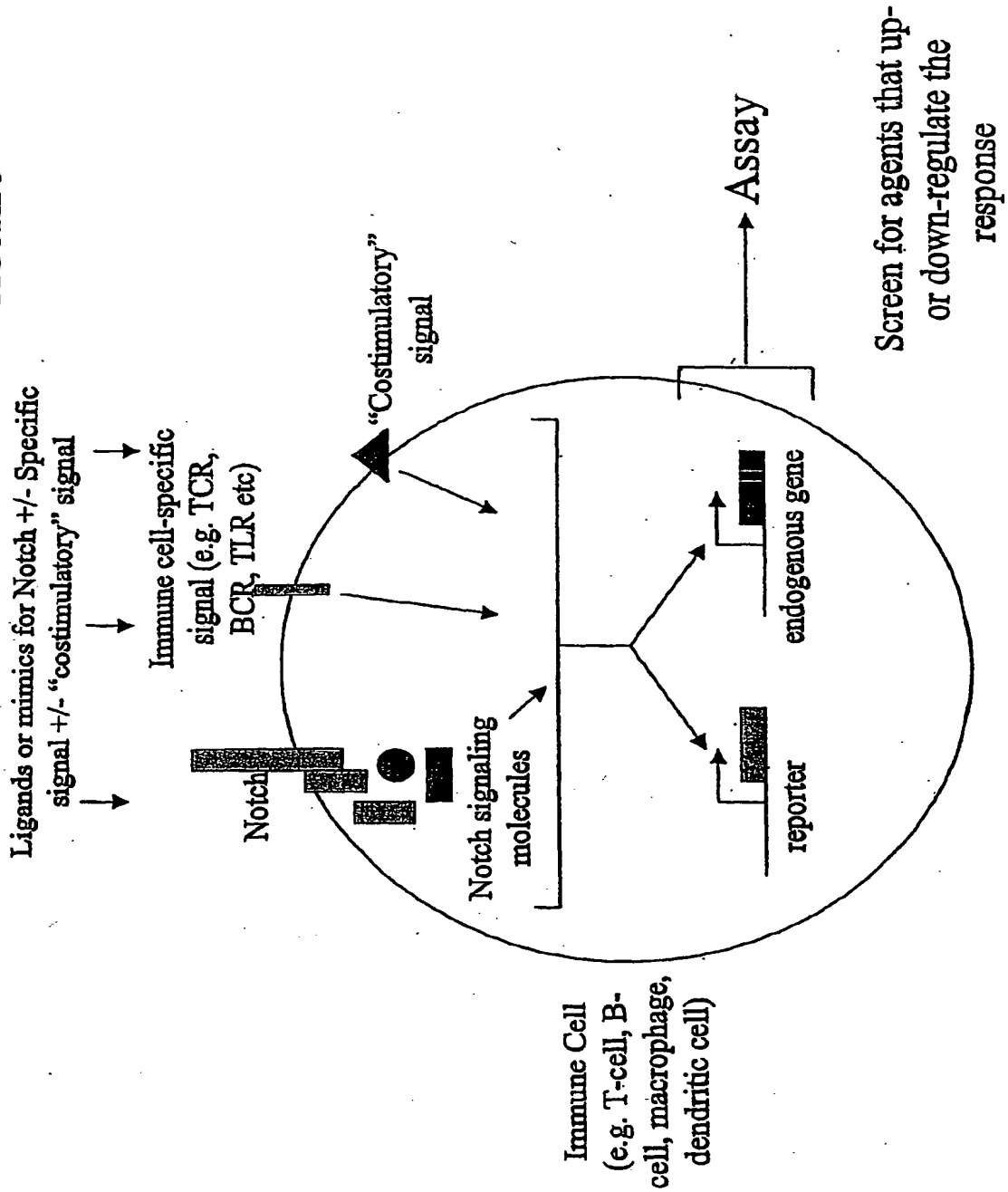


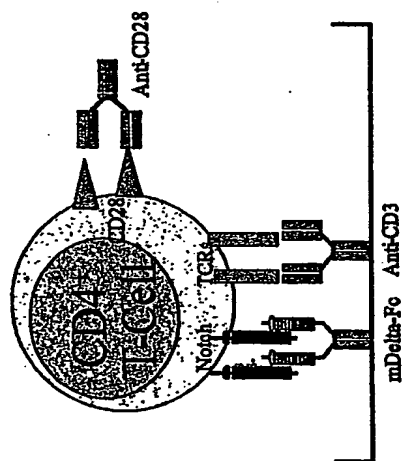
Figure 4

Figure 5

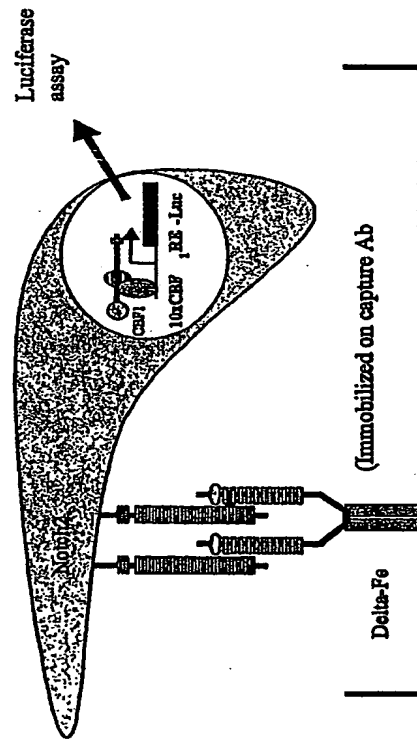


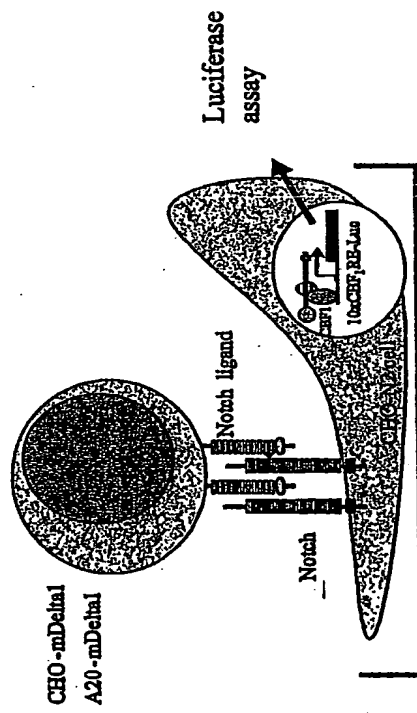
Figure 6

Figure 7

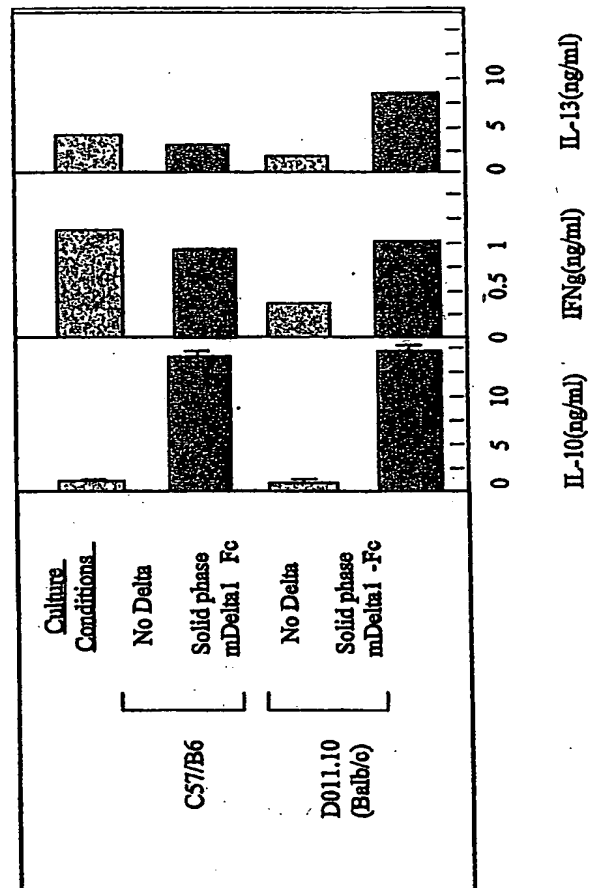


Figure 8

Relative expression of mHes1 in Cd4+ T cells

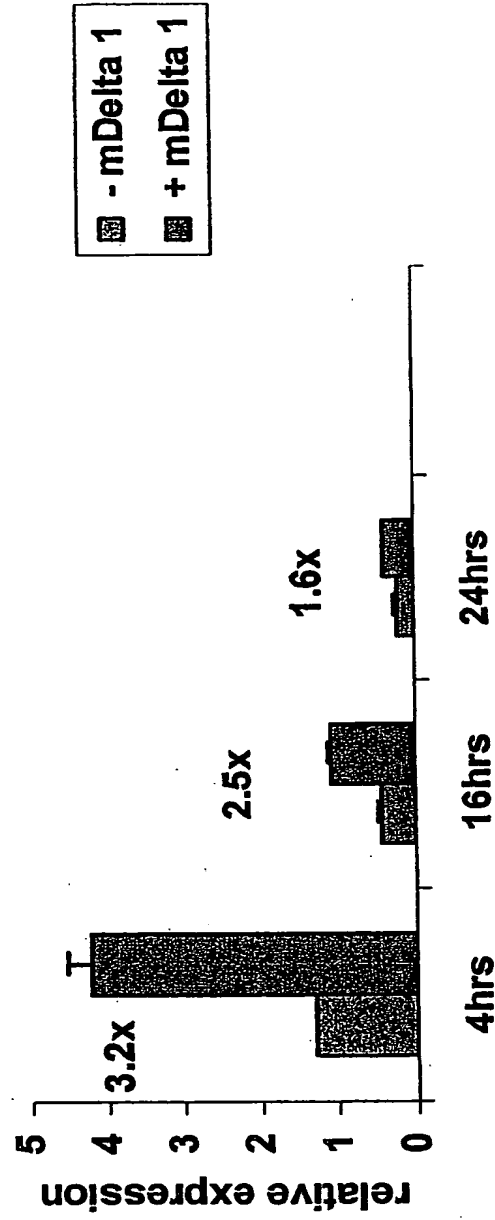


Figure 9

Cytokine production under polarising conditions

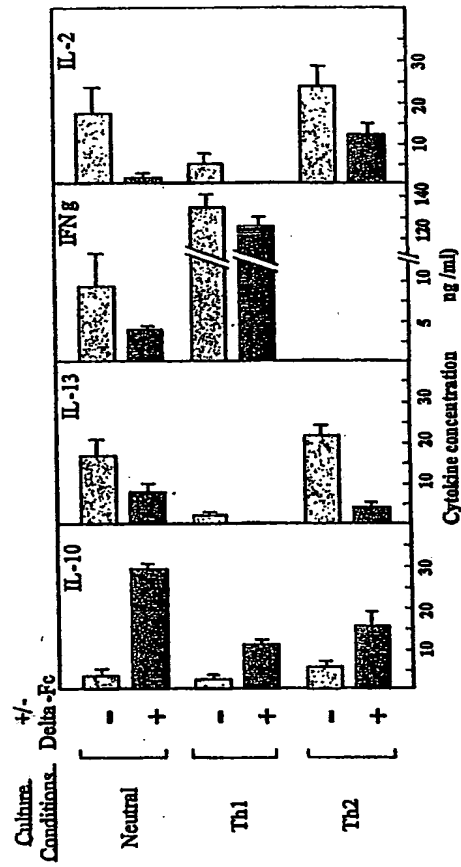


Figure 10

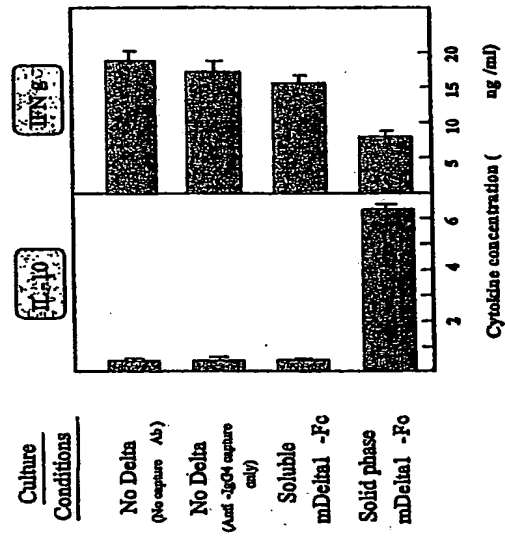


Figure 11

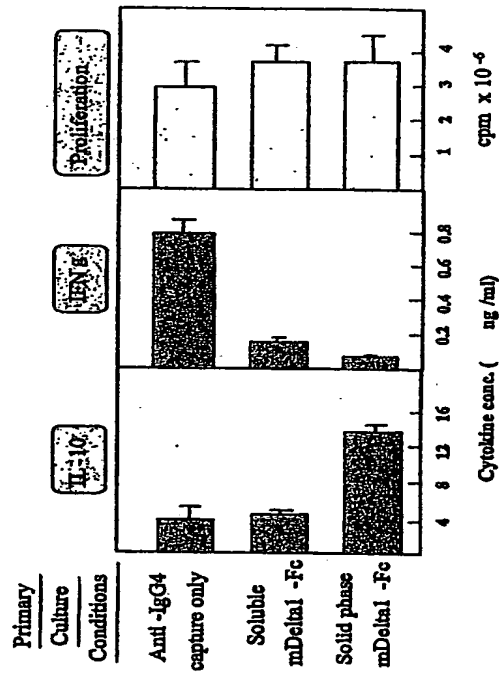


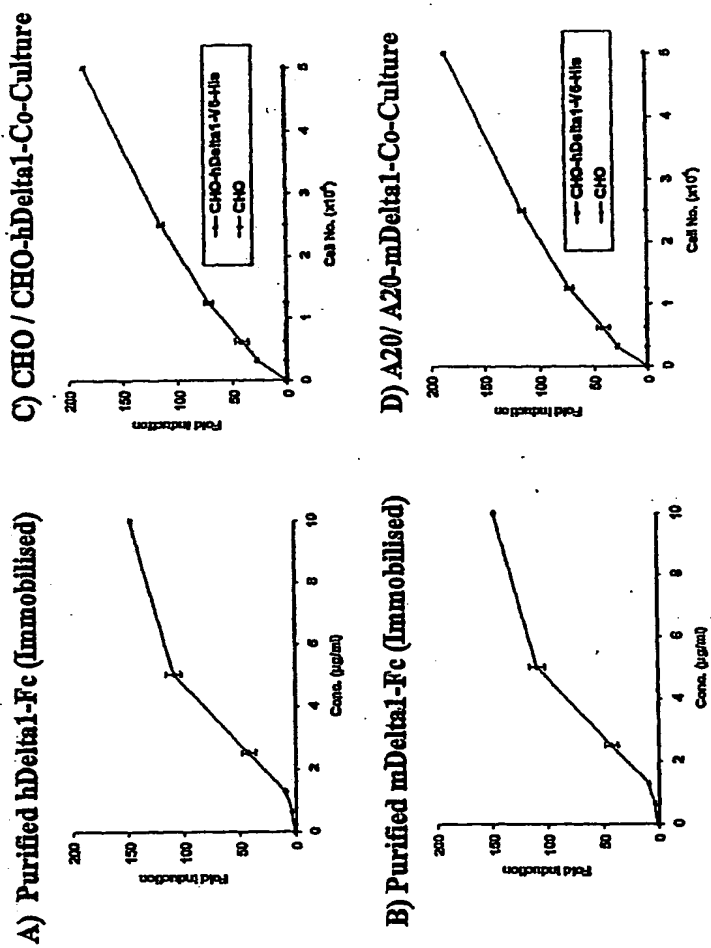
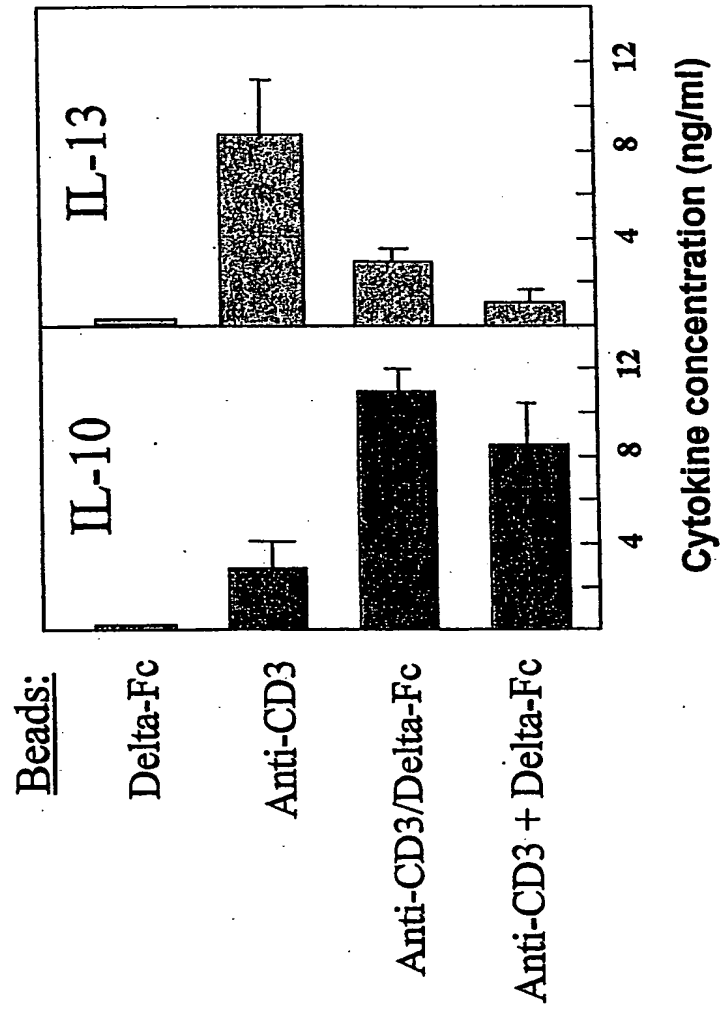
Figure 12

Figure 13: Delta-Fc coated beads modulate *in vitro* T-cell responses



CD4+ T-cells activated with beads coated as described plus soluble anti-CD28, 3d

Figure 14: Increase in IL-10 production in the presence of mouse or human Delta1 beads

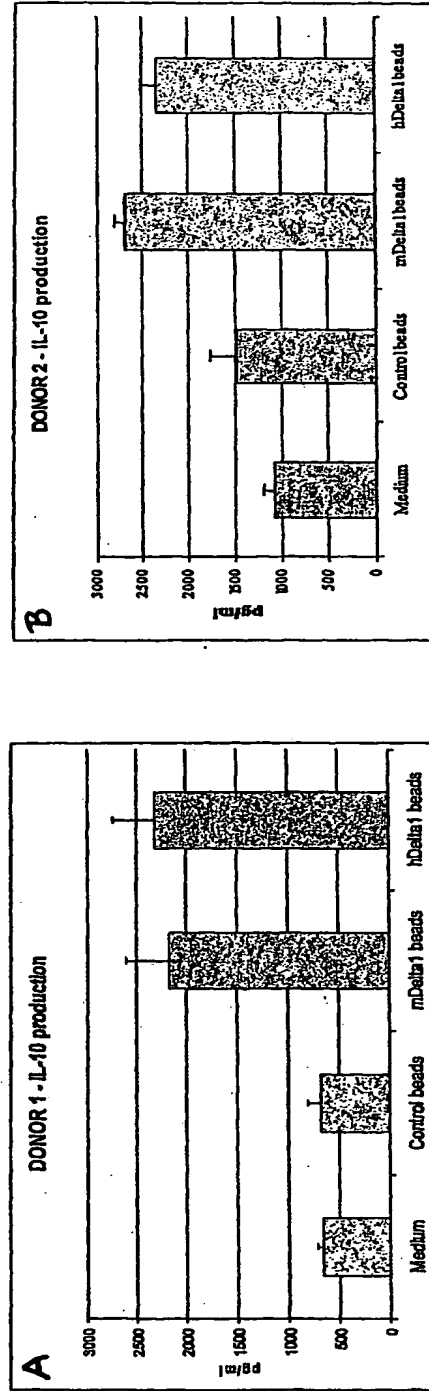


Figure 15: Decrease in IL-5 production in the presence of mouse or human Delta1 beads

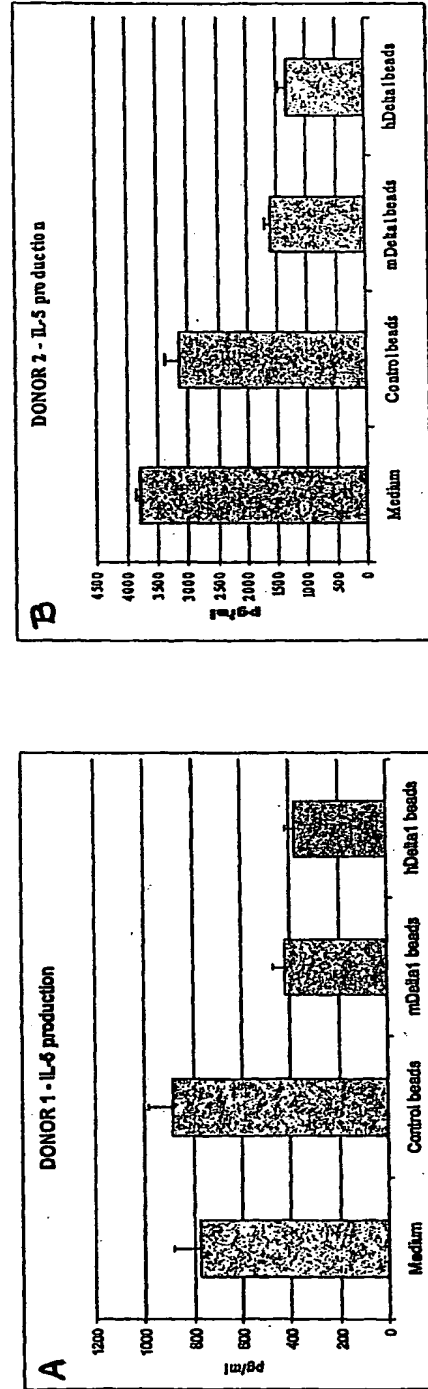


Figure 16: Increase in IL-10 production in the presence of mouse Delta1 beads

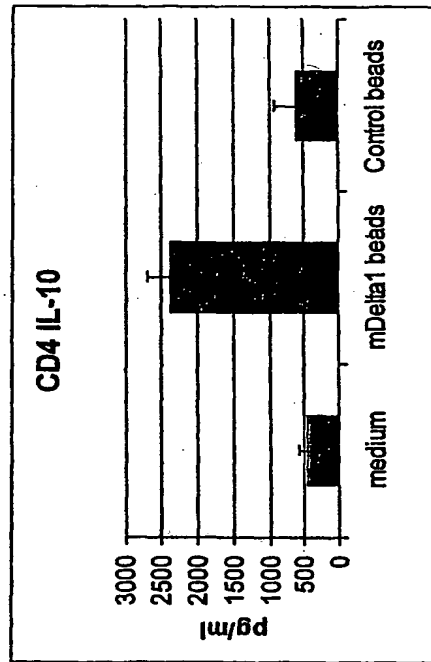


Figure 17: Decrease in IL-5 production in the presence of mouse Delta1 beads

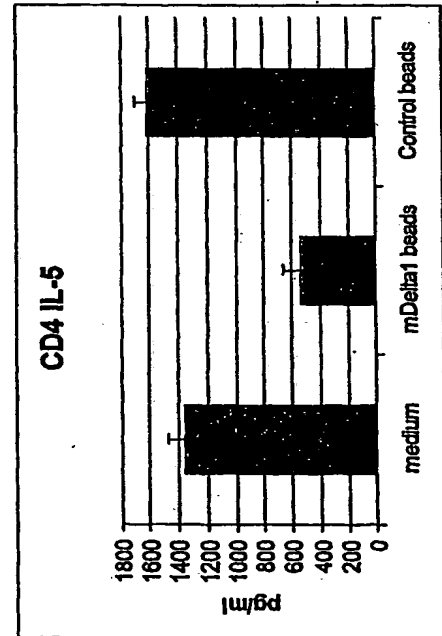
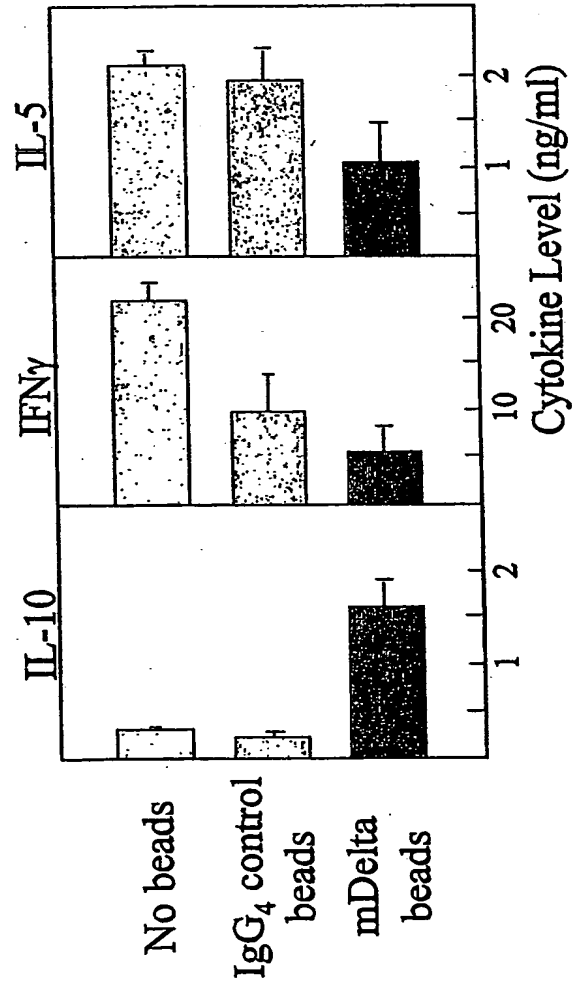
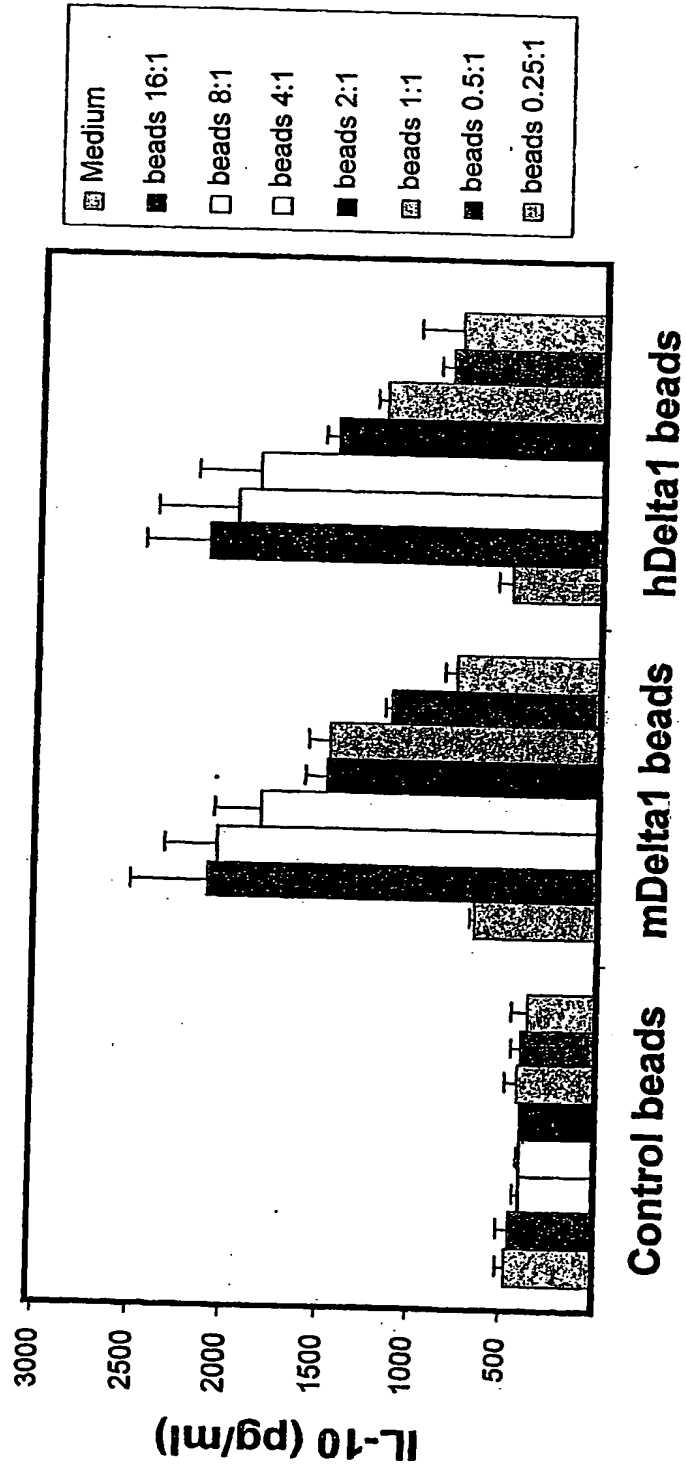


Figure 18: mDelta1-Fc Enhances IL-10 Production and decreases IFN γ and IL-5 Production by Human CD4 $^{+}$ T-Cells



Human CD4 $^{+}$ T-cells stimulated with anti-CD3 + anti-CD28 with
or without mouse Delta1-hlgG4-coated beads

Figure 19: Delta1 enhances IL-10 production by human CD4⁺ T-cells



Cells stimulated with anti-CD3/CD28 with or without Delta coated beads as shown (medium only and then bead:cell ratios 16:1, 8:1, 4:1, 2:1, 1:1, 0.5:1 and 0.25:1 from left to right in each group)

Figure 20: mDelta1-Fc Enhances IL-10 Production and decreases IL-5 production by Anti-CD3/CD28 Activated Human CD4⁺ T-Cells

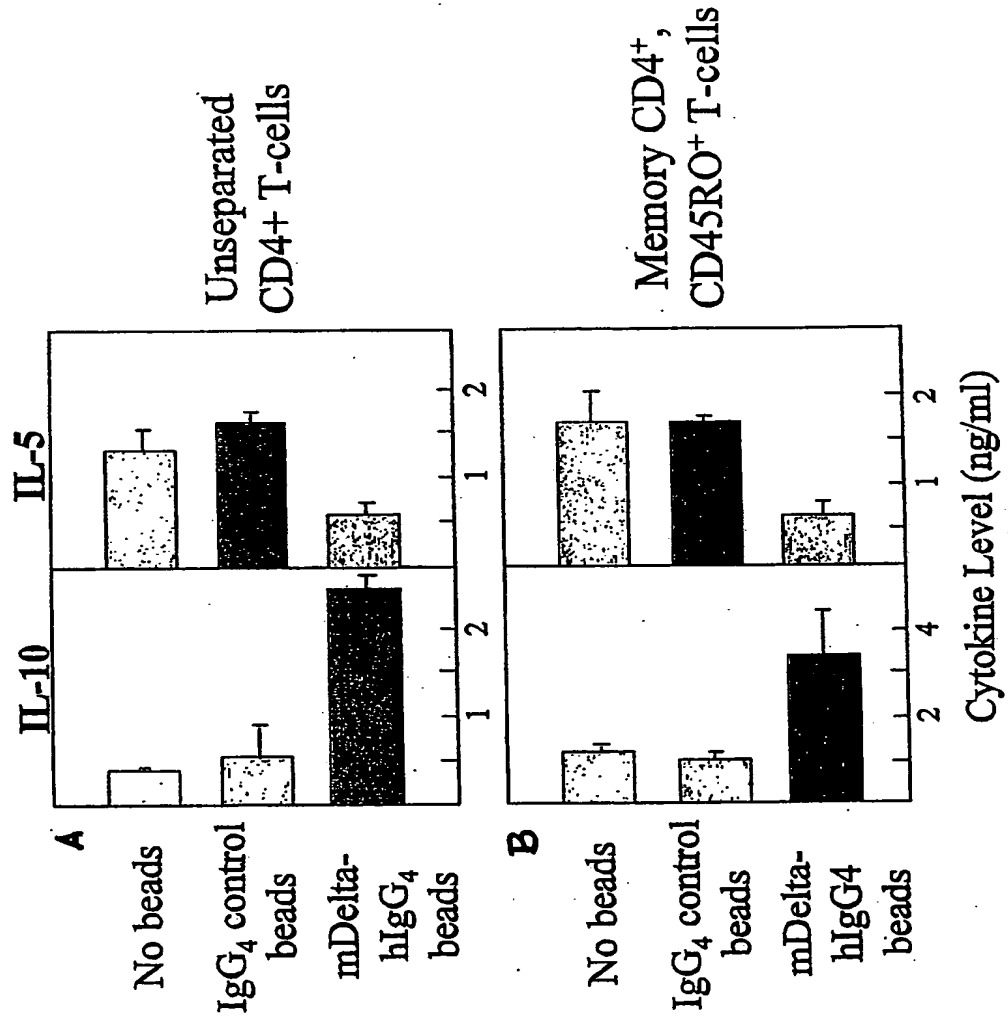


Figure 21: Delta-Fc enhances IL-10 production by murine CD4+ T-cells, even in presence of Th1 or Th2 cytokines

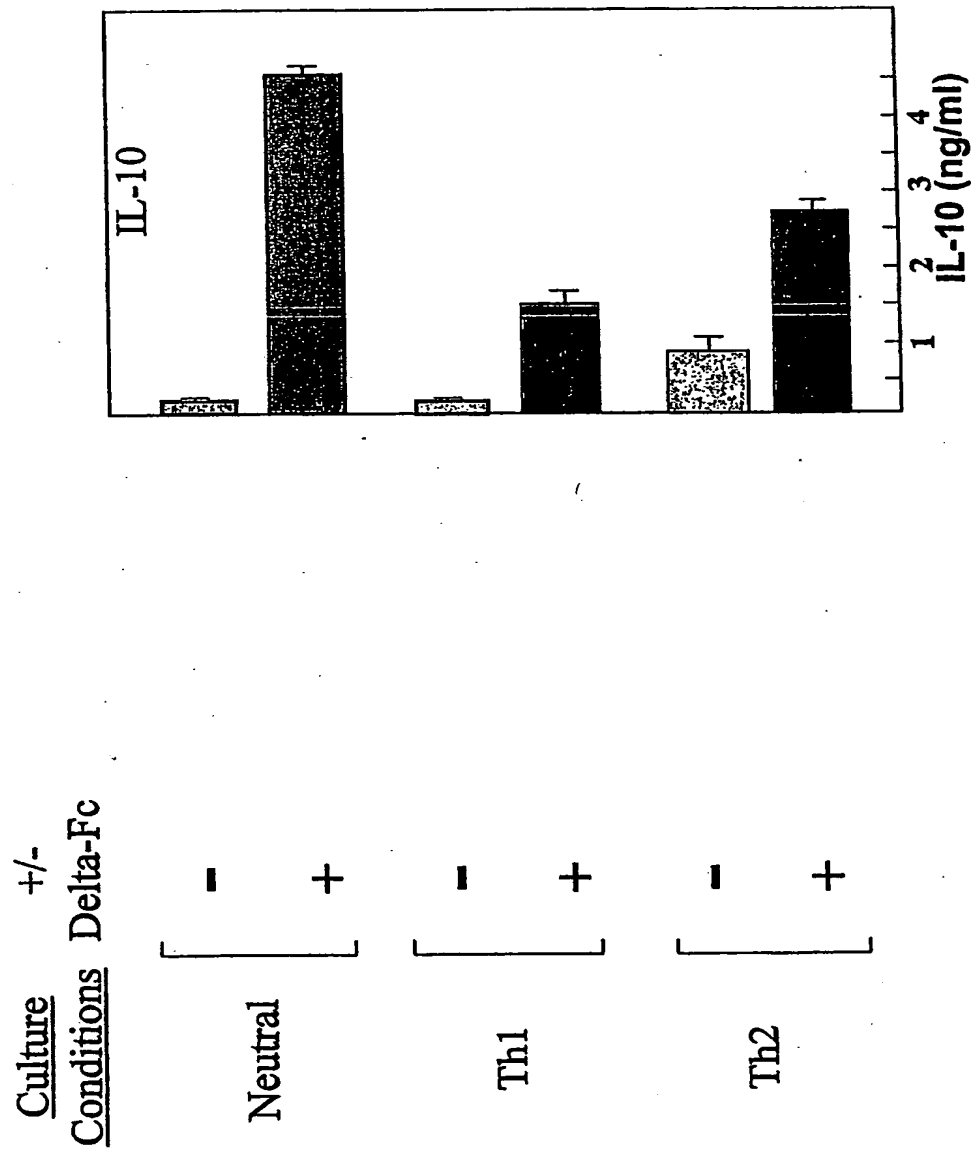


Figure 22: Micro-Array Profiling of Delta-Activated Genes in Jurkat T-Cells

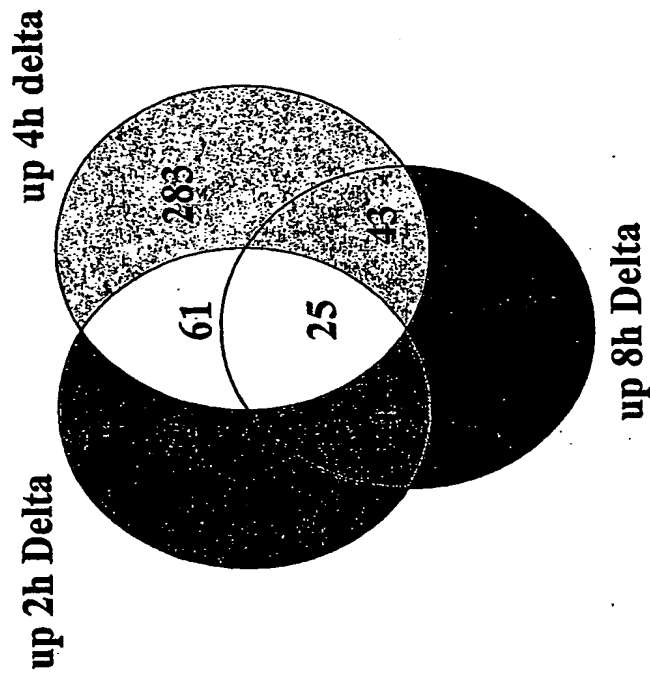


Figure 22B

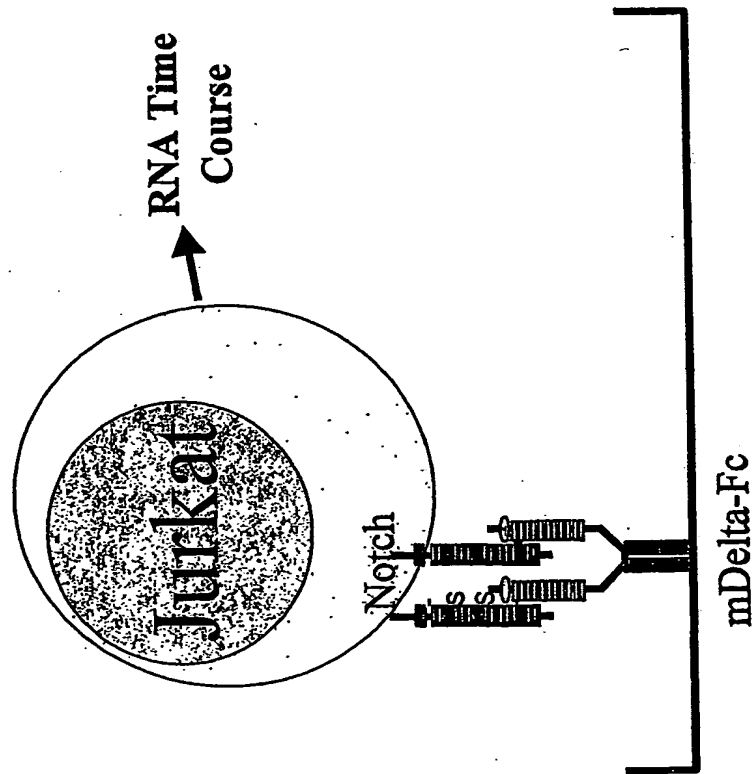


Figure 22A

Figure 23: Delta-Mediated Activation of Gene Expression in Jurkat T-Cells

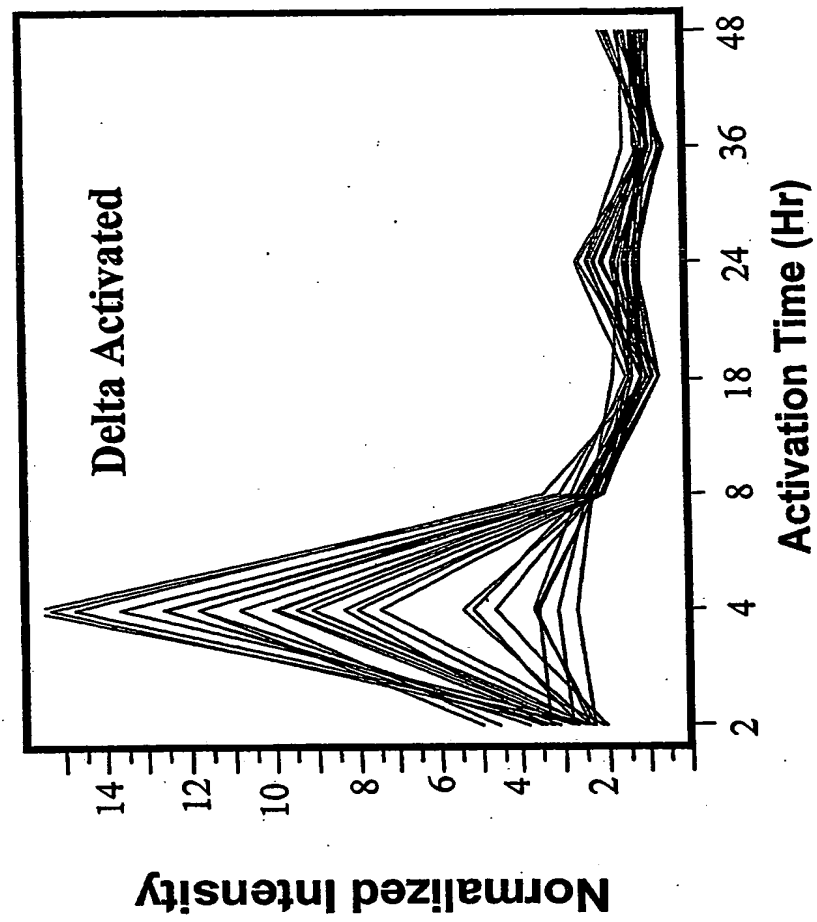


Figure 24: Micro-Array Profiling of Delta-Activated Genes in Jurkat T-Cells

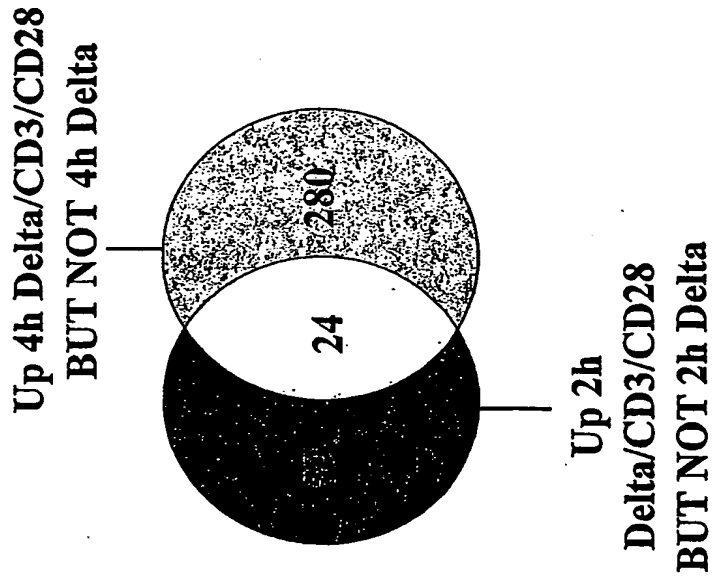


Figure 24B

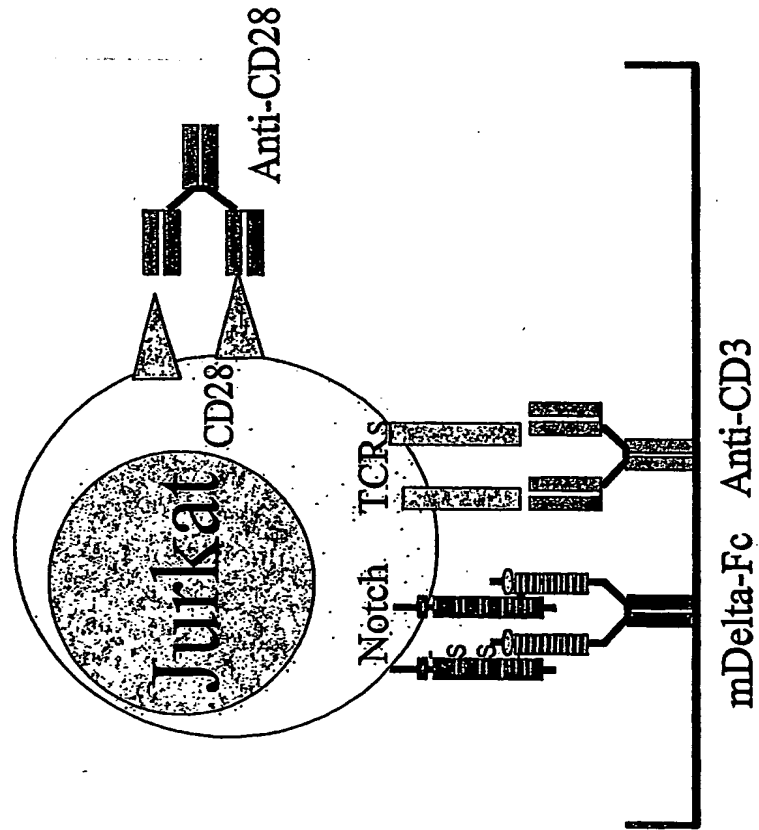
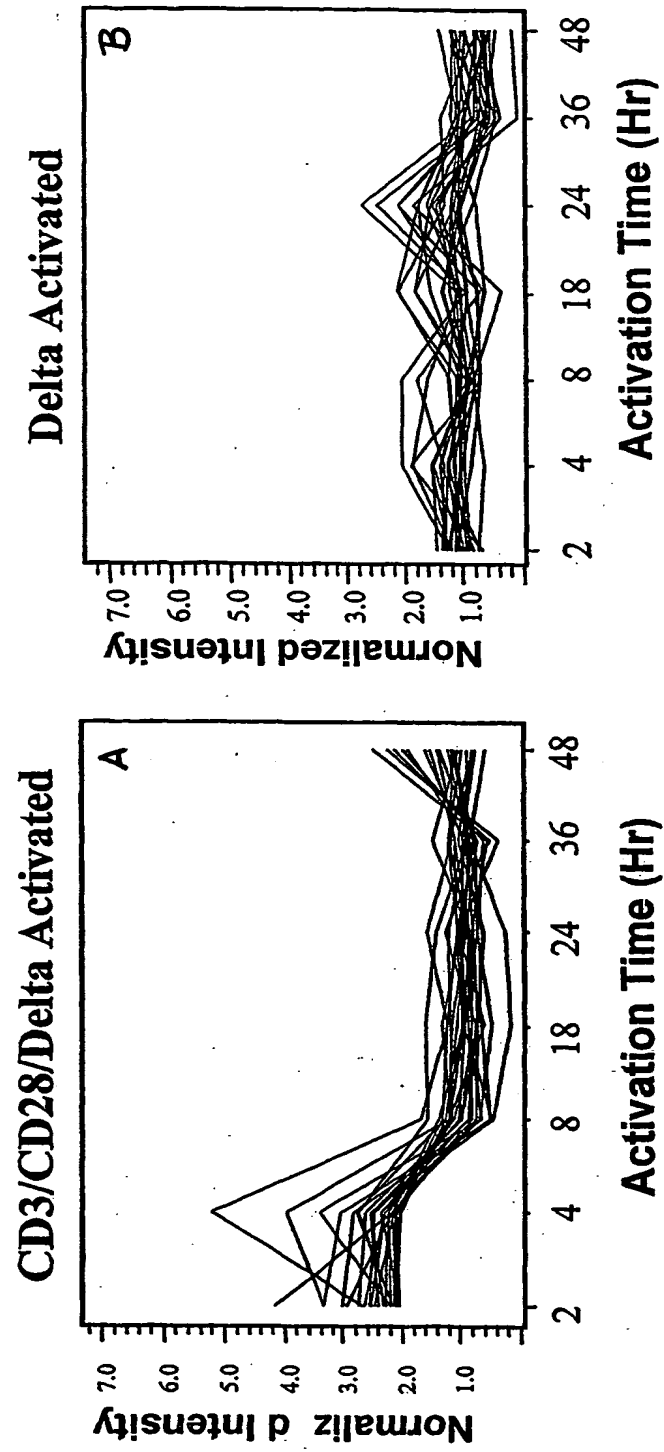
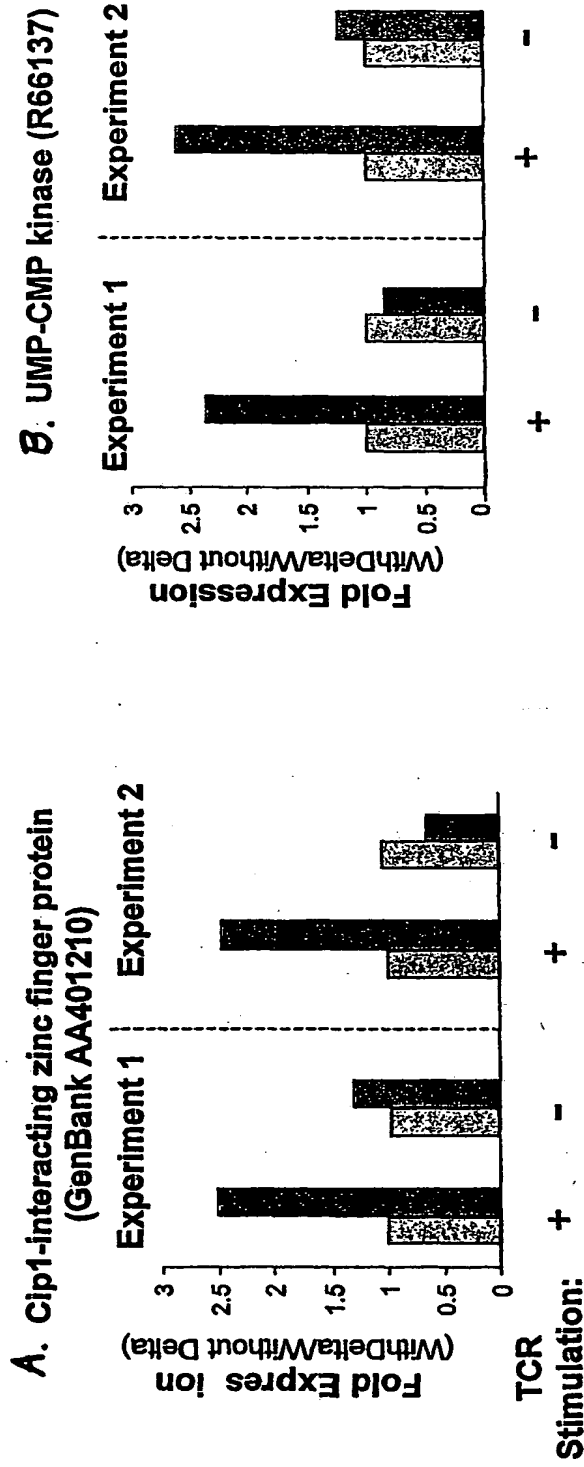


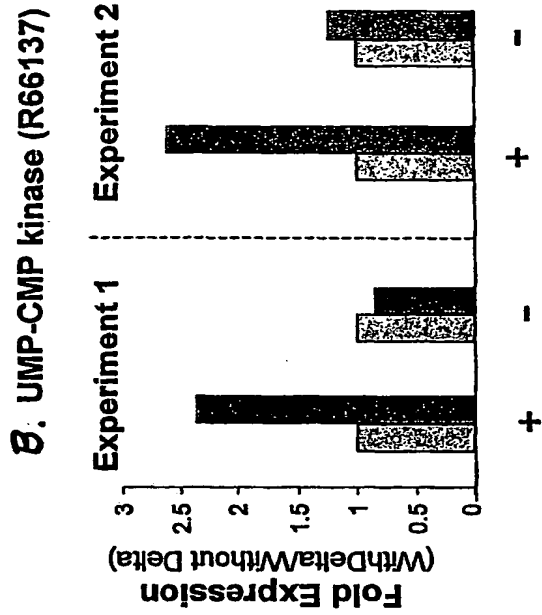
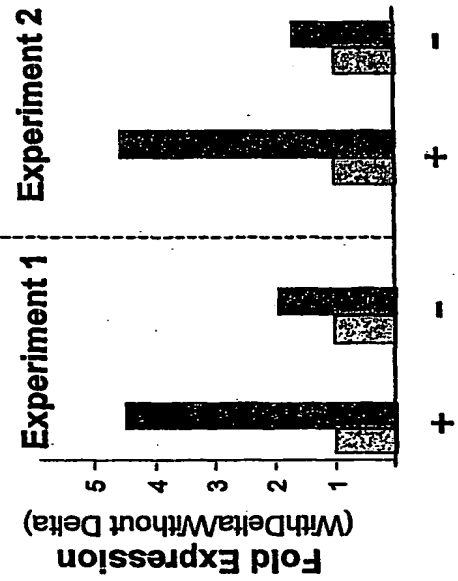
Figure 24A

Figure 25: Delta Modulation of Anti-CD3/CD28 Activation of Gene Expression in Jurkat T-Cells





C. Helicase (AA843975)



Jurkat T-cell Culture:
 Without Delta
 With Delta

Figure 26

**Jurkat/FLNotch2 Clones : Transient Reporter Assay
+/- PMA/Ionomycin +/- hDLL1-Fc**

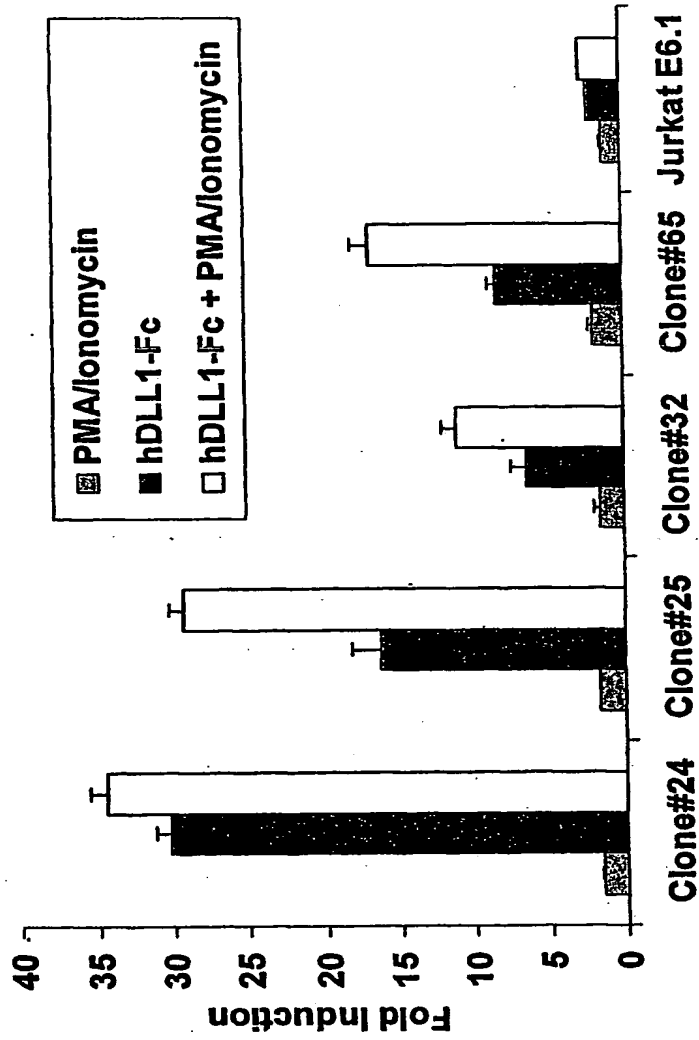


Figure 27

**Jurkat/FLN2 Clones : Transient Reporter Assay
Plate Bound hDLL1-Fc Dose Response Curves**

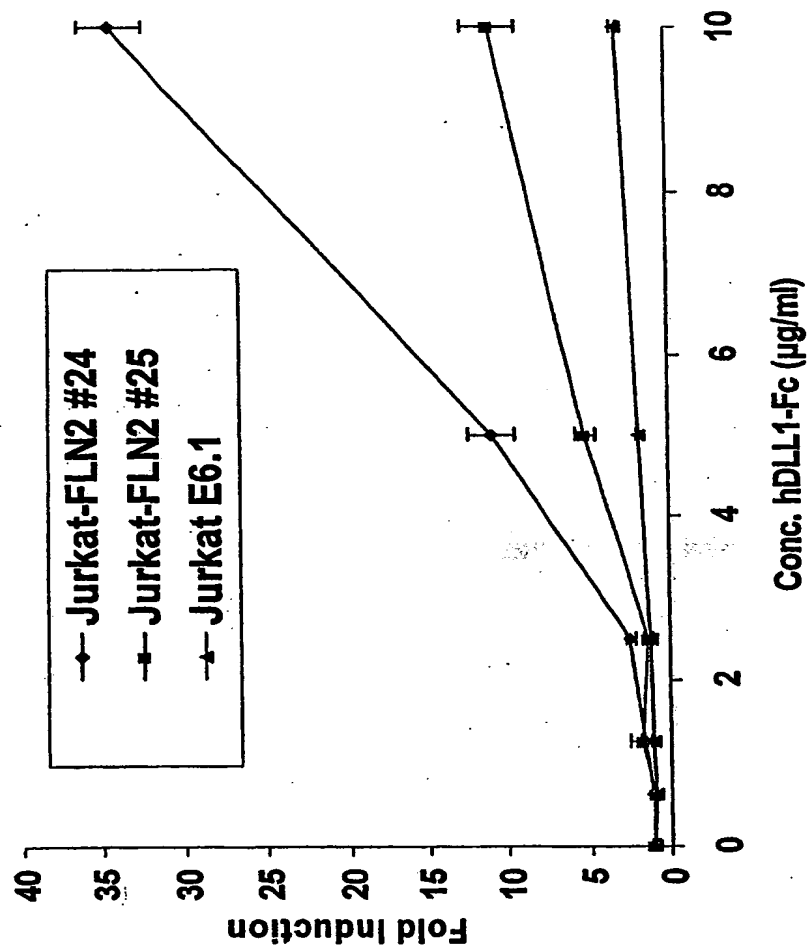


Figure 28

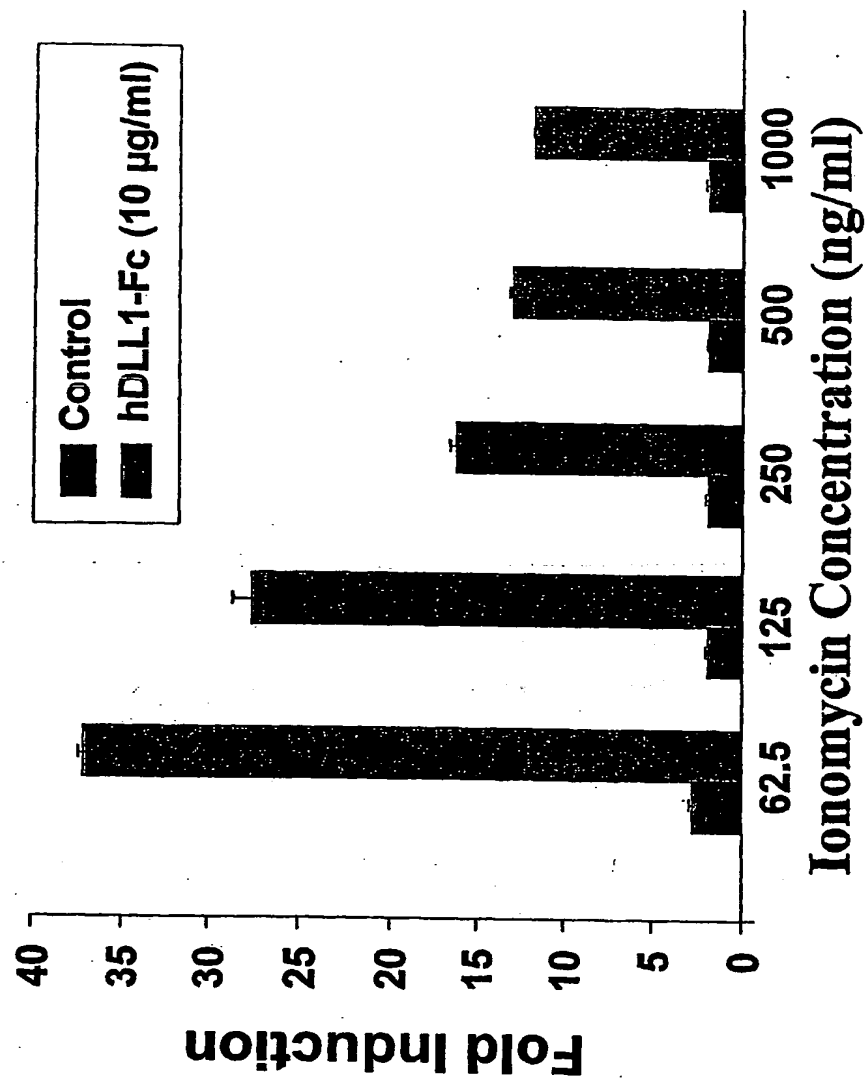
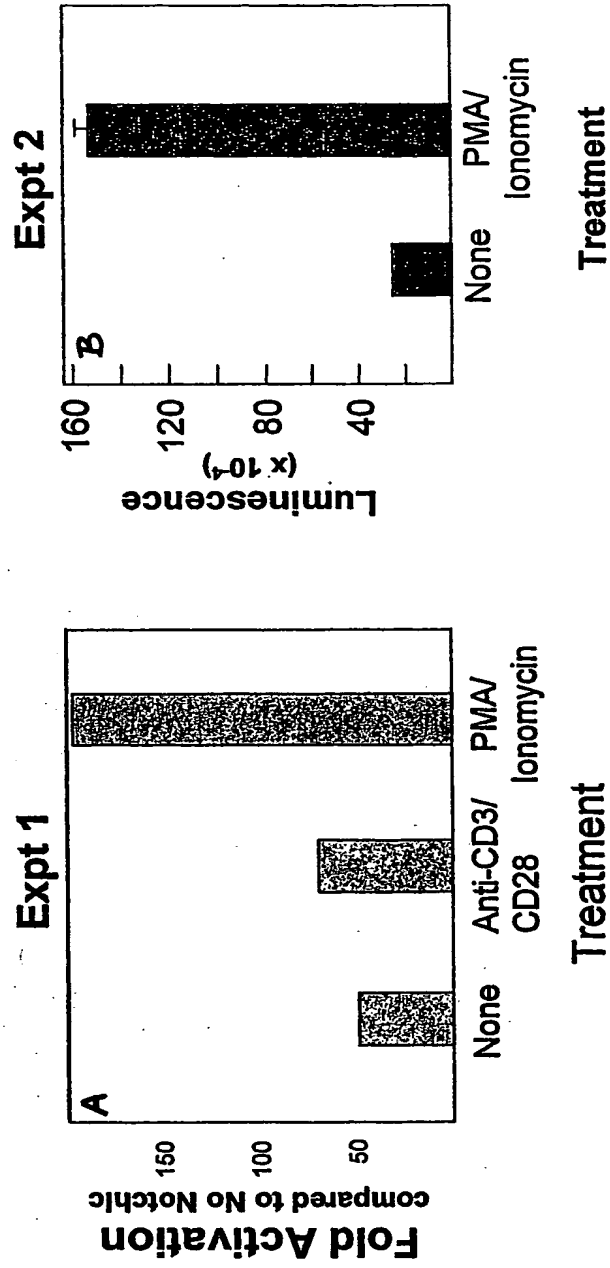
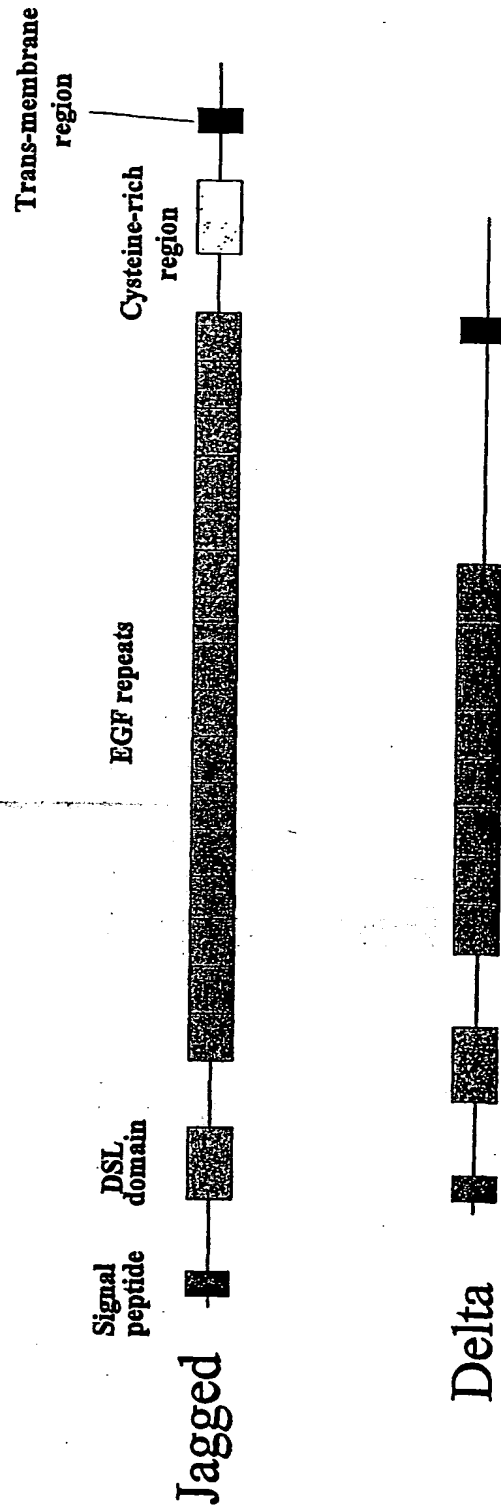


Figure 29



All Cells Transfected with CBF1-luciferase reporter + Nlc

Figure 30

**Figure 31**

DL_DROME/164-226	WKTKSESQ.....YT-----SLEVDFTVCDLNYTSGCAKFCRPRDDSFHSTCSETEGIIICLTGWQGDYC
DLL1_HUMAN/159-221	WSQDLHSSG.....RT-----DLKYSYRFVCDHYHGECCSVFCRPRDDAFGHFTCCGERGEKVCNPGWKGPYC
DLL1_MOUSE/158-220	WSQDLHSSG.....RT-----DLRYSYRFVCDHYHGECCSVFCRPRDDAFGHFTCGDRGEKACDFGKKGQYC
DLL1_RAT/158-220	WSQDLHSSG.....RT-----DLRYSYRFVCDHYHGECCSVFCRPRDDAFGHFTCGGERGEKACDFGKKGQYC
DLL4_MOUSE/156-218	WRJDEQNT.....LT-----RLSYSYRVICSDNYHGESCSRLCKKRDDHFCHYZCQPDGSLSLCLPGWTGKYC
DLL4_HUMAN/155-217	WLJDEQNT.....LT-----RLSYSYRVICSDNYHGDNCSELCKKRNDHFCHYVCOPOGNLSCLPGWTGEYC
Rat J1 (Q63722)	WQTLKONTG.....IA-----HFEYQIRVTCDDHYHGFCCNKFRCRPRDDFFGHYACDQNGNKTCAEGWMPGPEC
Mouse J1 (Q9QXX0)	WQTLKONTG.....IA-----HFEYQIRVTCDDHYHGFCCNKFRCRPRDDFFGHYACDQNGNKTCAEGWMPGPEC
Human J1 (O15122)	WQTLKONTG.....VA-----HFEYQIRVTCDDYYHGFCCNKFRCRPRDDFFGHYACDQNGNKTCAEGWMPGPEC
Chick J1 (Q90819)	WQTLKONTG.....AA-----HFEYQIRVTCADHYHGFCCNKFRCRPRDDFFTHHTCDQNGNKTCLGWTGPEC
Chick J2 (O42347)	WKTLOFNGP.....VA-----NFEVQIRVKCDENYTSALCNKFCGPRDDFVGHYTCQNGNKAQMGWMPGPEC
Mouse J2 (Q9QYE5)	WKSLSHFSCH.....VA-----HLEIQIRVCDENYTSATCNKFCRPRNDFFGHYTCQYGNKACMDGWMGKEC
Human J2 (Q9UNK8)	WKSLSHFSCH.....VA-----HLEIQIRVCDENYTSATCNKFCRPRNDFFGHYTCQYGNKACMDGWMGKEC
Rat J2 (P97607)	WKSLSHFSCH.....VA-----HLEIQIRVCDENYTSATCNKFCRPRNDFFGHYTCQYGNKACMDGWMGKEC
Human J2 (Q9Y219)	WKSLSHFSCH.....VA-----HLEIQIRVCDENYTSATCNKFCRPRNDFFGHYTCQYGNKACMDGWMGKEC
SERR_DROME/221-283	WKTLDHIGR.....NA-----RITVRVRVQCAVTVYNTTCTTCRPRDDQFGHYACGSEGGKLCINGWQGVNC

Figure 32

(human Delta 1; GenBank Accession No. AF003522)

MGSRCAALAVLSALLCQVWSSGVTEKLQEFYFNKKGLGNENCCRCGAGPPPCACRTFFRVCLKHQASVSPPECTYGSATVTVLGVDSFSISLPGGGGA
 DSAFNPTRFPFGFTWPGTFSLIITIALHTDSDDLATENPERLIRLATQRLHVTGHEWSQDLHSSGRITDLKYSYRFVCDHEHYIGECCSVFCRPRDDAFG
 HFTCGERGEKVCNPNCKGAPYCTEPICLPGCDEQHGFCCKCKRVQWQRYCDECIYRPGCLHGTCCQQFWQCNCQEGWGGLFCNQDLNYCTHHKPCKN
 GATCNTGQGSYTCSCRPGYTGAUCELGIDCDPSCKNGSCDLENSYSCTPPGFYGKICELSAATCADGPFNGRCSDSPDGYSCRCFVGYSGF
 NCEKIDYCSSTFCENGARCVDLGDAYLCRCQAGFSGRHCDNDVDCASSPCANGGTCRDGVNDFSCTCPGYTGRNCSAFVSRCEHAPCHNGATCHERG
 HGIVCECARGYGGPNCQFLIDELPPGPAVVDLTKLEGGGGFFWAVACVTLIVTMILLGCAAVVTVLRLQKRRPPADPCRGETEAMNLANCQREK
 DISVLIIGATQIKNTNKKADFHGDSADKNGFKARYPAVDYNLVQDKGDDTAVDHAHSKEDTKCPQSGSSEERKGTPTTIRGGEASERKRPRDPSGCSTSK
 DTKYQSVYVISEEKDECVIATEV

(human Delta 3; GenBank Accession No. NM_016941)

MVSPRMSGLLSQTVILALITLPOCRPAGVTELOIHSFGPGPGFAGSPSCARLPCRLFFRVCLKPGGLSEAAEAPCALGAALSARGPVYVTEQGPAPADL
 FLPDCLLQVFPFDWPGTFSFIITWRELGDQIGGPANWILLARVAGRRLLAAGFWARDIORAGAWELRFSYRACEPPAVGTACTRLCRPRSAPSRCCP
 GLRPCAPLEDECEAPLVCRAGCSFEHGFCEQPCCECRLEGTGPICTVTVSBSCLSPGSPSATTCCLVPGPCDGNPCANGGSCSETPRSECTCPRG
 FYGLRCEVSVTCADGPCENGGLCVGGADPDSAYICHPCPPGNGENCKRVDRCSLQPCRNGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGG
 TCVTEGGAHRCSCALGFGCRDCRRADPCAARPCAHGRCYAHFSLVCAACAGYMGARCEFFVHPDGHASALPAAPPGLRPGDPQRYLLPPLGILLVAAAV
 AGAALLVHVRRRGHSQDAGSRLLAGTFFPSVHALFDALNNLRTQSGSGDPSSTVDNRRFEDVDPOGIYVIBAPSTIAREVATPLFPPPLHTCRAGQROHL
 LEFTYPS8ILSVK

(human Delta 4; GenBank Accession No. AF_253468)

MAAASRSASGWAALLLVAINQORAAGSGVFOLOEFTNERGVLASGRPCPCGCRTRFVCLKHQAVVSPGPGCTGTVSTFVLCTNSFAVRDDSSGGGREN
 FLQIFNFNFWGTFSLIITANWAPGDILPEALPDALISKIAIQGSLAVQNWLLDEQTSITRLRYSYRVISDNYYCNCRLCKKRNDFHGHVYVQBP
 DGNLSCLPWTGEYCCQPICLSCCHEQNCYCSKPAECLCRPGWQRLCNECIPHNGCRHGTCTFPWQCTCDEGWGGLFCDQDLNYCTHHSPCKNGATCENS
 GQRYTCTCRPGYTGVDCELELSHCDNPNCRNGSSCKQEDGYHCLCPPGYTGHCESHTLSCADSPCNNGGSCRENOQANYACECPNFTCSNCEKVD
 RCTSNPCANGCQCLNRPSEMCRCPGTCYCELVSDCARNPCAHGCTCHDLNGLMCTCPAGFSGRCEVETSIDACASSPCFNRACTYDLDLSTDFV
 CNCPYGFVGRCEFFVGLPPSPFWAVSLGVGLAVILLVGLAVAVAVQRLRRPDDGSRAMNLSDFOKONLIPAAQLKNTNQKKELEVDCGLDKSNCG
 KQQNHETLDYNLAPGLGRGTMPGKTFHSDKSLGEKAPRLHSEKEPCRISATCSPRDMMYQSVCLLISERNECVIATEV

Figure 33

(human Jagged 1; GenBank Accession No. U73936)

MRSPTREGRSRRPLSLALLCALRAKVCASGQFELILSMQVNGSLQNGCCGARNPDRKCTREDCDYFKVCLKEYQSRVTAAGPFCFSFG
STFVIGTENTENLKAQRQNDNRILVLPFSFWRSTYLLVANDSSNDVQPSLIERKASHGMINPBRQWTLKQNTGVAHFYQIRVTCDDYYIGF
GCKFCRPRDDYTHYACDQNGNKTCMEGNGPECNRAICRQCCSHGSKLPDCRCQYGWQGLYCDKCIPIHPGCVHIGICNEFWQCLCETNNGGQ
LCDKILNYCGTHOPCLANGGTCNTPDKYQCSCEPGYSGNCEIAEHAICLSDPCHNRGSKETSLGFECECSPGWTGPTCSNIDDCSPNNCSHGCT
CODLVNGFKCVCFPFWTCKTCLDANECEAKPCVNAKSKNLLASYCDCLPWRMGONCDINTNDCLGQOQNDASCRDLVNGYRCICPPGYAGDCE
RDIDECASNPCINGGHQONEINRFQCLPTGFSNLCQLDIDYCEPNPCQNGACYNASDIYFKCPEDYEGKNSHLKDHCRTPCEVIDSCTVAM
ASNDTPEGVYISSNVCGPHKCKSQSGCKFTCDCKNGFTCYCHENINDCEANPCRNNGTCDIDGVNSYKICISDGEWAYCETNINDCSQNPCHNG
GTCRDLVNDFYCDCKNGWKGKTCNRSRDSQDEATCNNGGTCDEGAFKCMPCGMECTCNARNSSCLPNPCHNGGTCVNGESTVCCKEGWEG
PICAQNTNDCSPHPCVNSGTCVDGNWIRCECAPGAGPDCRINTINECQSSPCAFGATCYDEINGYRCVPPGHSKAKCQVSGRPTCTMGSVIPDG
AKWDDDCNTQCCLNGRLACSKVWCGPRPCLLKHGSECPSCQSCIPILDDQCFVHPCTGVEGRSSSLQFVKTKCTSDSYQDNCANITFTFNKEMM
SPGLTTEHICSELRLNLLKNVBAEYSIYIACEPSPANNEIHWALSAEDIRDDGNPIKEITDKIIDLVSRGDGNSSLLAAVAEVRVQRRPLKQRTD
FLVPLLSVLTVAWTCCLVTAFTWCLRRKPKGSHTHSASEDNTNVRQLNQIKNPIEKHGANTVPIKDYENKNSRQSKIRTHNSEVEEDMDKH
QQKARFAKQPAYTLVDREKPPNGTPTKHPNWNKQDNRDLESAGSLNMEYIV

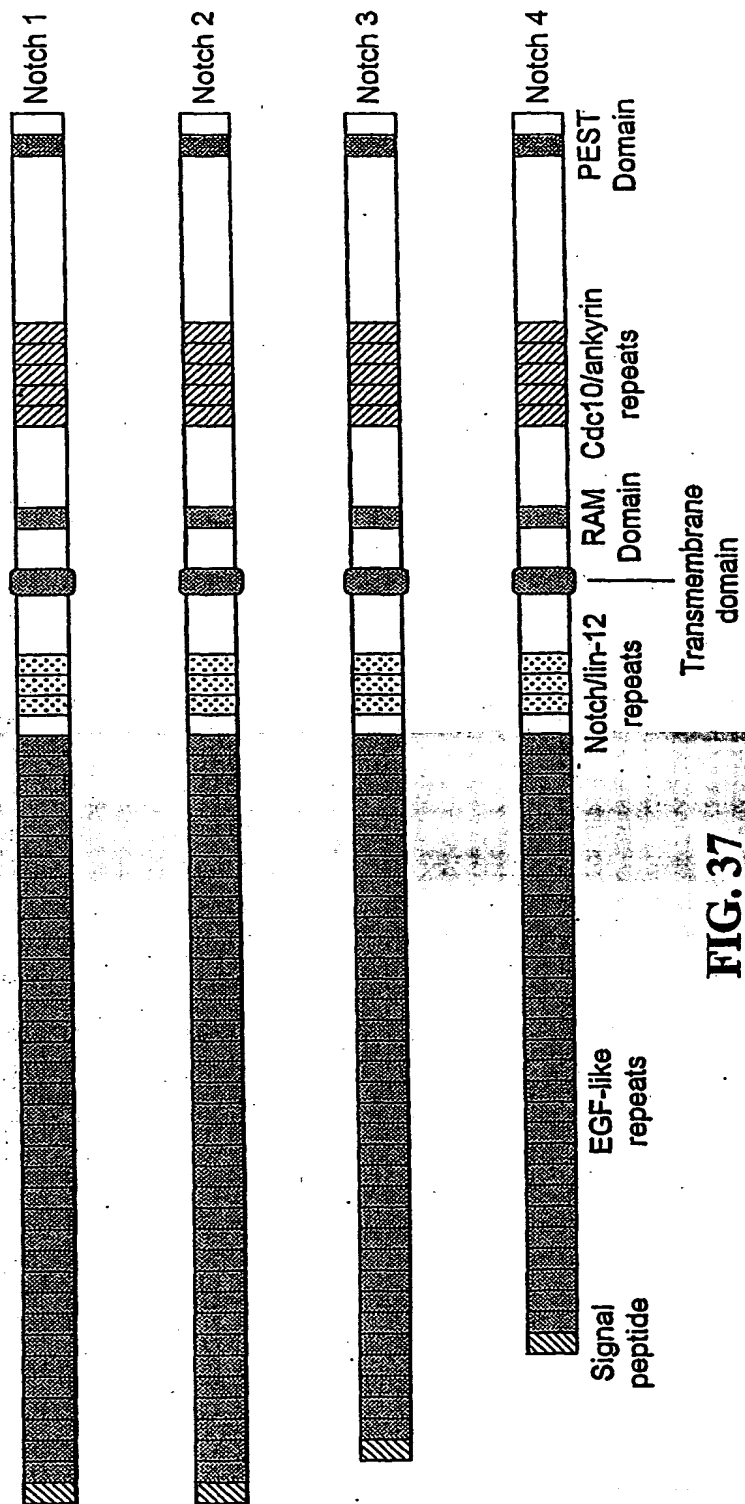
(human Jagged 2; GenBank Accession No. AF029778)

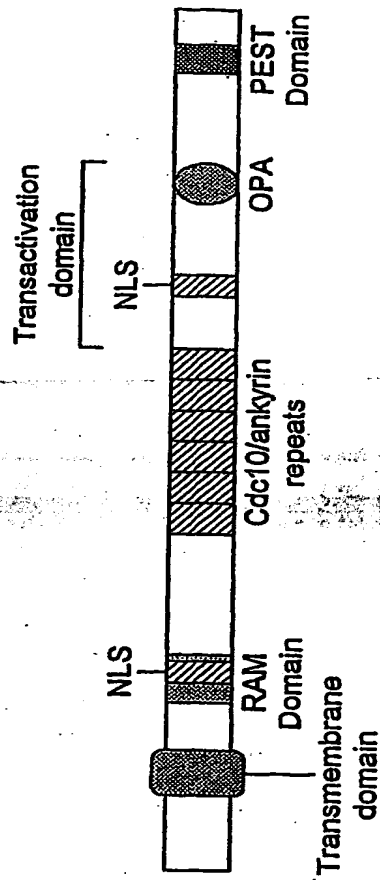
MRAQGRGLPRRLILLALLWVOAARPMGYTELQISALRNNGELLSGACDGDGRTRAGCGGHECDTYVYVCLKEYQAKVTPPGPCSYGHGATPV
LGNBFLPAGAACDRARARAGDQDQGLVVPFPAWPRSTLIVEAMWMDTTPNEELLIERVSHAGMINPDRKSLHFSGHVAHLELQI
RVRCDENTYSATCNKFCRPRNDFGHTYCDQYCNKACMDGNGEKEKEANVKQGNLLHGGCTVPGECRCSTGWQGRFCDECVTPGCVHSGSVFPW
QCNCEINWGLLCDKOLNYCGSHHPCINGGTCINAEPPQYRCICPDGYSIGNCEKAEHACTSNPCANGSGCHEVPSGFECHCPGWSGPTCALDIDE
CASNPCAAGGTCVDQVDFGFCICPEQWVGATCQLDANECEKPCINAFSCNLLIGYYCDICPKWGINCHINVNDCRGQCQHGCTCKDLVNGYQCV
CPRFGGRHCELRDKKASFPCHSGGLCEDLADGFHCPCQFSGPLCEVDVLDCEPSPCENGARCNLEGDYYCACPDFFGKNCVSVPREPCPGGA
CRVIDCGSDAGCPGMPGTAAAGVCGPHGRVSPQGNFSCIDSGFTCTCYCHENIDDCLOQPCRNGGTCIDEVDAFCFCPSGWEGLCDTNPNDCL
PDPCHBRGRCITLVNDFYCACDDGNGKTCNHSREFOADATCSNGGTCDSGDFTRCACPPGKSTCAVAKNSCLPNPCVNGGTCVSGSASFSCI
CRDGEGRCTENTNDCNPLCYNGGLCYDGVNWFCECAPGAGPDCRINTINECQSSPCAFGATCYDEINGYRCVPPGHSKAKCQVSGRPTCTMGSVIPDG
SRGTFPHGSSWVEDCNSRCLDGERDCSKVWCGMKPCLLACQPEALSAQCLGQRCLEKAPQCLRPCEALNCECAEPPSTPCLPFSGLDNNC
ARLTLHFNDRHVPQGTIVGALCSGIRSLPATRAVARDLVLLCDRASGASAVEVAFFSPARDLFDPSLIQGAHAIVAAITORGNSLILLAVTE
VKVETVTTCGSSGLLVVLGAFSVINTACVVLGVWTRKRRKRRSRLEPREEBANNQWAPLNPINPIERPCHGKHQVLYQCKNFTPPPRRADEA
LPGPACHAAVDEDEDEDLGRGEEDSLEAKFTLSHKTTHDPCRSPPGPAHWASGPKVDNRVRSINAEYAGKE

Figure 34

[illegible]

Figure 35

**FIG. 37**

**FIG. 38**